CASE®

- Exclusive Draft-o-matic® control of rear mounted tools
- 52† HP gasoline or diesel engine
- 3800 lb. Hydra-leveling® Loader
- Hydrostatic power steering

580 CONSTRUCTION KING LANDSCAPER

FEATURES

- The perfect unit for landscaping, maintenance, mowing and handy man chores — available at a surprisingly low price tag!
- Exclusive Draft-o-matic control. Works for all 3-point hitch rear-mounted tools, including blade, scarifier-scraper-rake.
- Case-built gasoline or diesel engines. Both are known for fuel economy, abundant torque, long life.
- 8-speed direct drive transmission or 4-speed transmission with full power shuttle and torque converter.
- Hydra-leveling loader features exclusive power linkage design, which provides 6200 lbs. breakout, 40° bucket rollback and up to 110° bucket grading angle. While grading, bucket cylinders are fully retracted. Eliminates rod deflection.
- Single lever loader control plus semi-automatic return-to-dig bucket control, which returns bucket to proper dig position after dumping load. Faster cycling.
- Heavy-duty 34,000 lb. capacity load front axle. Equipped with extra husky front wheel bearings and spindles for high load carrying ability, long life.
- Hydrostatic power steering takes the work out of maneuvering, keeps the operator fresh longer.
- Six loader buckets with capacities to ⅞ cu. yd. SAE rating. Also 4-in-1® bucket for extra versatility.
- Loader and tractor are unit designed for great strength, ruggedness and long life.
- Wide selection of matched equipment, including blade, scarifier-scraper-rake, easy on/off backhoes.

LOADER OPERATING DATA

*Bucket rollback (at ground line)	40°
(at 18" carry)	45°
*Digging depth below ground line — bucket flat	4¾"
*Digging depth below ground line — bucket at 4° angle (short lip bucket)	7"
(long lip bucket)	7½"
Grading angle	up to 110°
*Breakout force, maximum (with 1400 lb. counterweight — rear of unit not tied down)	6200 lbs.
*Maximum lift capacity to full height — rear of unit not tied down	3800 lbs.
*Raising time — from ground line to full height (bucket empty)	4.8 sec.
*Dumping time (full bucket)	1.0 sec.
*Lowering time (power down, bucket empty)	3.0 sec.

PROTECTED BY CASE 12-MONTH WARRANTY NO HOUR LIMIT

MANUFACTURED AND WARRANTED BY

J. I. CASE CO.

Racine, Wisconsin, U.S.A.

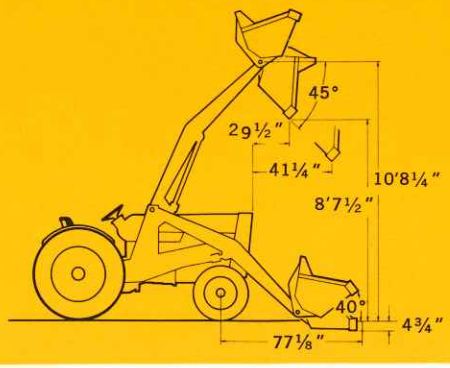
INDUSTRIAL EQUIPMENT MANUFACTURERS COUNCIL - MEMBER - IEMC

†See specifications reverse side

CASE®

SPECIFICATIONS

580 CONSTRUCTION KING
LANDSCAPER



DIMENSIONS AND WEIGHTS (with standard equipment)

*Overall length — bucket flat on ground to rear of optional counterweight (long lip bucket) ..... 15'4"
*Overall width (at bucket) ..... 61¾" to 79⅜"
(at rear tires) ..... 71" to 79"
*Ground clearance — at drawbar ..... 15½"
*Wheelbase: Gasoline ..... 77⅜" Diesel ..... 78⅞"

†*Approximate shipping weight:	With Converter	Less Converter
Gasoline	5870 lbs.	5750 lbs.
Diesel	6070 lbs.	5950 lbs.

†Shipping weights include 73⅜" long lip bucket and standard equipment. Draft-o-matic 3-point hitch tools or counterweight must be added.

*LOADER BUCKET SIZES OUTSIDE WIDTH	CAPACITIES SAE rating (Nominal heaped)	Struck	WEIGHTS
63⅜" (short lip)	18 cu. ft.	15.372 cu. ft.	496 lbs.
63⅜" (long lip)	20 cu. ft.	17.510 cu. ft.	538 lbs.
**73⅜" (short lip)	¾ cu. yd.	17.807 cu. ft.	550 lbs.
**73⅜" (long lip)	⅞ cu. yd.	20.016 cu. ft.	575 lbs.
79⅜" (snow and light materials)	⅞ cu. yd.	21.962 cu. ft.	600 lbs.
61¾" (4-in-1®)	15 cu. ft.	10.422 cu. ft.	575 lbs.

**Treadwidth bucket when 56" rear tread is used.

ENGINE	Gasoline	Diesel
Make and model	Case G159	Case G188
*Fuel	gasoline, reg.	diesel, No. 2
††Horsepower, maximum @ 2100 rpm w/torque conv.	52	52
@ 1900 rpm w/std. clutch	47.5	48.0
†††*Horsepower (SAE net) @ 2100 rpm w/torque conv.	46.0	46.5
@ 1900 rpm w/std. clutch	42.5	43.0
Torque, maximum, lbs.-ft. Sea level @ 60°F.	139 @ 1250 rpm	139 @ 1350 rpm
*500' altitude @ 85°F.	122 @ 1250 rpm	124 @ 1300 rpm
Torque, governed rpm, lbs.-ft. Sea level @ 60°F. (with torque converter)	130 @ 2100 rpm	130 @ 2100 rpm
(with standard clutch)	132 @ 1900 rpm	133 @ 1900 rpm
*500' altitude @ 85°F. (with torque converter)	115 @ 2100 rpm	117 @ 2100 rpm
(with standard clutch)	117 @ 1900 rpm	117 @ 1900 rpm
*Cylinders, no. (valve in head)	4	4
*Bore and stroke	3½" x 4⅛"	3 13/16" x 4⅛"
*Displacement (cu. in.)	159	188
Compression ratio	7.4 to 1	17.5 to 1
Starting	12 V electric	12 V electric
Battery	55 amp. hrs. (1)	105 amp. hrs. (2)
Fuel induction	up-draft carburetor	injectors (4)
Fuel supply	gravity feed	injection pump
Ignition	coil and distributor	diesel cycle
Air cleaner	oil bath	
Oil filter — full flow type	renewable cartridge	
Governor	mechanical flyweight	
Lubrication	positive pressure	
Cooling system, type	pressurized, 4 psi	
pump	impeller, permanently lubricated bearing	

††Manufacturer's rating of maximum engine horsepower at flywheel when equipped with oil, water and fuel pumps, with fuel set at approximate mean delivery. Corrected to sea level — 29.92" Hg. and 60°F. dry air.

†††SAE net horsepower of engine applied to this vehicle when equipped with operating accessories including oil, water and fuel pumps, generator, fan and muffler. Corrected to 500' altitude with .38" Hg. vapor pressure (29.38" Hg. observed barometer) and 85°F. (air per SAE J816a).

***FUEL TANK (capacity):** U.S. gal. ..... 22 Imperial gal. 18⅓

***STEERING**
Type (standard) ..... Hydrostatic
Turning ratio (stop to stop) ..... 2¾ turns

BRAKES
Foot, band/disc. Individual rear wheel, lock together for park or travel, parking lock ..... 6½" dia.

POWER TRAIN
***Standard transmission:** 8-speed sliding spur gear with dual range lever and synchronized shuttle shift plus clutch.
***Optional transmission:** 4-speed sliding spur gear with full power shuttle and torque converter.
***Torque converter:** Single-stage, hydrokinetic type (2.31 to 1 ratio).
***Final drive:** Spur gear.
***Clutch:** Foot operated, mechanical, single plate, dry disc, 11" diameter with ferrometallic lining (with standard transmission).
***Shuttle:** Standard — synchronized sliding gear (manual). Optional — full power (hydraulic clutch).

***TRAVEL SPEEDS (mph)**
STANDARD: With synchronized shuttle shift transmission and clutch @ 1900 engine rpm, 14.9 x 24 tires.

Low range	1st	2nd	3rd	4th
Forward	1.7	3.3	4.0	11.7
Reverse	2.1	4.1	5.0	14.5
Direct range	**1st**	**2nd**	**3rd**	**4th**
Forward	2.8	5.3	6.5	18.8
Reverse	3.4	6.7	8.1	23.4

OPTIONAL: With full power shuttle transmission and torque converter @ 2100 engine rpm, 14.9 x 24 tires.

	1st	2nd	3rd	4th
Forward	3.1	5.9	7.2	20.8
Reverse	3.7	7.1	8.6	24.9

***TIRES**
Standard: Front ....7.50 x 16, 10 ply (I_1) Rear ....14.9 x 24, 6 ply (R_4)
Optional:
Front ....7.50 x 16, 10 ply, truck tread Rear ....14.9 x 24, 6 ply (R_1)
14.9 x 24, 6 ply (R_3)
Dual rear ..... 12.4 x 24, 4 ply (R_1 and R_3)

***TREAD:** Front .....53" Rear, adjustable (standard) ..... 56" to 64"
Rear, fixed (optional) ..... 56" to 64"
Rear, reversible disc (optional) ..... 58" or 66"

HYDRAULIC SYSTEM
***Cylinders:** Double-acting with hardened and chrome-plated rods to resist damage, increase strength and resist corrosion.
Lift (2) ..... 3" dia. x 31½" stroke, 1½" rod
Bucket (2) ..... 2½" dia. x 20" stroke, 1½" rod
Hydra-leveling® (1) ..... 3" dia. x 9 15/16" stroke, 1¾" rod

Cylinder design and packing: Easy-to-service with threaded end cap. Hardened and chrome-plated rods. Cylinder equipped with two-way, triple-seal packing and phenolic guide rings for positive action. Nylon wiper rings and self-locking cap screw or nut on rod with "U" cup packing.

Reservoir: 5½ U.S. gallons refill capacity with *40 micron element on return side. Condition gauge for filter.

***Pump:** Front-mounted, direct-drive, gear-type. 20 gpm capacity @ 1900 rpm (clutch models). 22 gpm @ 2100 rpm (torque converter models). 2200 psi with Case Hi-Lo TCH oil.

Control valve: Single lever control for loader lift-and-dump. Lift lever has positive hold "float" position. Automatic return to dig mechanism is standard. *Relief valve pressure setting — 2200 psi @ 22 gpm.

Hydraulic lines: Steel tubing with brazed or flared fittings and wire-braid, high pressure hose with crimped, full-flow fittings.

STANDARD EQUIPMENT
3800 lbs. lift capacity to full height loader with integral frame, less bucket, with controls and hydraulics. Return-to-dig mechanism. Detent float position in control valve. Heavy-duty industrial grille. Choice of Case-built gasoline or diesel engine. Upright muffler. Rain cap on muffler. Anti-freeze solution to —20°F. Oil filters (engine and hydraulic system). Air cleaner (oil bath type). Speedometer. Tachometer (engine speed indicator). Hourmeter. Engine oil pressure warning light. Fuel level gauge. Generator warning light. Engine heat indicator gauge. Torque converter temperature warning light and torque converter pressure gauge (torque converter models only). Electric manifold pre-heater (diesel). Rear wheel fenders. Tool box. Fuses. Instrument panel light. Light switch. Two headlamps (shock mounted). Combination rear working light and rear taillight. Hand and foot throttles. "All traction utility" rear tires, 14.9 x 24, 6 ply, R_4. 7.50 x 16, 10 ply, I_1 front tires. Comfortable, weather resistant, easy-ride seat (adjustable fore and aft). Rear 12V electrical outlet. Floor plates. Condition gauge for hydraulic system filter. Synchronized shuttle with clutch. 8-speed transmission. Heavy-duty, 34,000 lb. dynamic load front axle with 53" tread. 56" to 64" adjustable tread rear wheels. 12V starter, generator and voltage regulator. Hydrostatic steering. Fuel filters (diesel). Suction-type fan. Foot clutch (except on torque converter models). Three foot brake pedals for torque converter models. (Two on right provide independent braking of rear wheels while left pedal engages both brakes simultaneously after interrupting power flow to rear wheels). Two foot brake pedals for clutch models (provide independent braking of rear wheels). Key switch with safety start mechanism. Drawbar.

OPTIONAL EQUIPMENT
Draft-o-matic hydraulic control 3-point hitch. R_1 and R_3 rear tires. Dual rear tires. Truck tread front tires. Pre-cleaner for engine. Wheel weights (front and rear). Differential lock. PTO (standard or independent for clutch models — independent for converter models). Remote hydraulics (dual). Swinging drawbar. Torque converter with power shuttle and 4 speed transmission. Integral 62" tread rear wheels. Reversible 58" or 66" tread rear wheels. 1400 lb. rear counterweight (plus 280 lbs. with mounting brackets). 1850 lb. quick-detach rear counterweight. Anti-freeze to —40°F. 14½' Case-built backhoe. 16½' Case-built Extendahoe. 14' Case-built Side Shift backhoe. 580 lb. front counterweight. Combination rear stop and taillight. Warning light and flasher attachment. Engine block heater. Horn. Locking gas cap. Directional signals.

OPTIONAL LANDSCAPER'S EQUIPMENT
Case-Danuser landscaper's blade. Scarifier. Scraper. Rake. Side-mounted rotary and sickle bar mowers. Rear-mounted rotary mowers. §Sweepers. §Snow plows. Case agricultural equipment. Drott 4-in-1® bucket.

§Equipment approved for use with the 580 Construction King, but not manufactured or warranted by J. I. Case Co. See your dealer for details.

*These specifications conform to IEMC definitions. IEMC definitions are not established for specifications not preceded by an *.

IMPORTANT
J. I. Case Co. reserves the right to change these specifications without notice and without incurring any obligation relating to such changes.

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